

## PCT REQUEST

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Actel27A/E12

|         |                                                                                                                                         |                                                         |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| 0       | For receiving Office use only                                                                                                           |                                                         |
| 0-1     | International Application No.                                                                                                           | PCT/EP 03 / 12502                                       |
| 0-2     | International Filing Date                                                                                                               | (10. 11. 2003) 10 NOV 2003                              |
| 0-3     | Name of receiving Office and "PCT International Application"                                                                            | EUROPEAN PATENT OFFICE<br>PCT INTERNATIONAL APPLICATION |
| 0-4     | Form - PCT/RO/101 PCT Request                                                                                                           |                                                         |
| 0-4-1   | Prepared using                                                                                                                          | PCT-EASY Version 2.92<br>(updated 01.01.2003)           |
| 0-5     | Petition<br>The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty |                                                         |
| 0-6     | Receiving Office (specified by the applicant)                                                                                           | European Patent Office (EPO) (RO/EP)                    |
| 0-7     | Applicant's or agent's file reference                                                                                                   | Actel27A/E12                                            |
| I       | Title of Invention                                                                                                                      | NOVEL SULFAMIDES                                        |
| II      | Applicant                                                                                                                               |                                                         |
| II-1    | This person is:                                                                                                                         | applicant only                                          |
| II-2    | Applicant for                                                                                                                           | all designated States except US                         |
| II-4    | Name                                                                                                                                    | ACTELION PHARMACEUTICALS LTD                            |
| II-5    | Address:                                                                                                                                | Gewerbestrasse 16<br>CH-4123 Allschwil<br>Switzerland   |
| II-6    | State of nationality                                                                                                                    | CH                                                      |
| II-7    | State of residence                                                                                                                      | CH                                                      |
| II-8    | Telephone No.                                                                                                                           | +41 61 487 4545                                         |
| II-9    | Facsimile No.                                                                                                                           | +41 61 487 4500                                         |
| II-10   | e-mail                                                                                                                                  | editha.muff@actelion.com                                |
| III-1   | Applicant and/or inventor                                                                                                               |                                                         |
| III-1-1 | This person is:                                                                                                                         | applicant and inventor                                  |
| III-1-2 | Applicant for                                                                                                                           | US only                                                 |
| III-1-4 | Name (LAST, First)                                                                                                                      | BOLLI, Martin                                           |
| III-1-5 | Address:                                                                                                                                | Baselmattweg 141<br>CH-4123 Allschwil<br>Switzerland    |
| III-1-6 | State of nationality                                                                                                                    | CH                                                      |
| III-1-7 | State of residence                                                                                                                      | CH                                                      |

*Bolli Martin*

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|         |                                  |                                                       |
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| III-2   | <b>Applicant and/or inventor</b> |                                                       |
| III-2-1 | This person is:                  | applicant and inventor                                |
| III-2-2 | Applicant for                    | US only                                               |
| III-2-4 | Name (LAST, First)               | BOSS, Christoph                                       |
| III-2-5 | Address:                         | Muesmattweg 98<br>CH-4123 Allschwil<br>Switzerland    |
| III-2-6 | State of nationality             | CH                                                    |
| III-2-7 | State of residence               | CH                                                    |
| III-3   | <b>Applicant and/or inventor</b> |                                                       |
| III-3-1 | This person is:                  | applicant and inventor                                |
| III-3-2 | Applicant for                    | US only                                               |
| III-3-4 | Name (LAST, First)               | CLOZEL, Martine                                       |
| III-3-5 | Address:                         | Winterhalde 3b<br>CH-4102 Binningen<br>Switzerland    |
| III-3-6 | State of nationality             | FR                                                    |
| III-3-7 | State of residence               | CH                                                    |
| III-3-8 | Telephone No.                    | +41 61 487 4513                                       |
| III-3-9 | Facsimile No.                    | +41 61 487 4500                                       |
| III-4   | <b>Applicant and/or inventor</b> |                                                       |
| III-4-1 | This person is:                  | applicant and inventor                                |
| III-4-2 | Applicant for                    | US only                                               |
| III-4-4 | Name (LAST, First)               | FISCHLI, Walter                                       |
| III-4-5 | Address:                         | Obertorweg 64<br>CH-4123 Allschwil<br>Switzerland     |
| III-4-6 | State of nationality             | CH                                                    |
| III-4-7 | State of residence               | CH                                                    |
| III-5   | <b>Applicant and/or inventor</b> |                                                       |
| III-5-1 | This person is:                  | applicant and inventor                                |
| III-5-2 | Applicant for                    | US only                                               |
| III-5-4 | Name (LAST, First)               | WELLER, Thomas                                        |
| III-5-5 | Address:                         | Hoelzlistrasse 58<br>CH-4102 Binningen<br>Switzerland |
| III-5-6 | State of nationality             | CH                                                    |
| III-5-7 | State of residence               | CH                                                    |

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|        |                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IV-1   | <b>Agent or common representative; or address for correspondence</b><br>The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: | <b>agent</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| IV-1-1 | Name (LAST, First)                                                                                                                                                                                                       | HOFMANN, Dieter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| IV-1-2 | Address:                                                                                                                                                                                                                 | StratAll<br>Therwilerstrasse 87<br>CH-4153 Reinach<br>Switzerland                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| IV-1-3 | Telephone No.                                                                                                                                                                                                            | +41 61 713 1560                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| IV-1-4 | Facsimile No.                                                                                                                                                                                                            | +41 61 713 1561                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| IV-1-5 | e-mail                                                                                                                                                                                                                   | hofmannndrd@bluewin.ch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| IV-1-5 | Agent's registration No.                                                                                                                                                                                                 | 25510                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| V      | <b>Designation of States</b>                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| V-1    | Regional Patent<br>(other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)                                                                                | AP: GH GM KE LS MW MZ SD SL SZ TZ UG ZM<br>ZW and any other State which is a Contracting State of the Harare Protocol and of the PCT<br>EA: AM AZ BY KG KZ MD RU TJ TM and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT<br>EP: AT BE BG CH&LI CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT SE SI SK TR and any other State which is a Contracting State of the European Patent Convention and of the PCT<br>OA: BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG and any other State which is a member State of OAPI and a Contracting State of the PCT |
| V-2    | National Patent<br>(other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)                                                                                | AE AG AL AM AT AU AZ BA BB BG BR BY BZ<br>CA CH&LI CN CO CR CU CZ DE DK DM DZ EC<br>EE ES FI GB GD GE GH GM HR HU ID IL IN<br>IS JP KE KG KP KR KZ LC LK LR LS LT LU<br>LV MA MD MG MK MN MW MX MZ NI NO NZ OM<br>PH PL PT RO RU SC SD SE SG SK SL TJ TM<br>TN TR TT TZ UA UG US UZ VC VN YU ZA ZM<br>ZW                                                                                                                                                                                                                                                                                                      |

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|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                              |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <b>V-5</b>   | <b>Precautionary Designation Statement</b><br>In addition to the designations made under items V-1, V-2 and V-3, the applicant also makes under Rule 4.9(b) all designations which would be permitted under the PCT except any designation(s) of the State(s) indicated under item V-6 below. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. |                                              |
| <b>V-6</b>   | <b>Exclusion(s) from precautionary designations</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>NONE</b>                                  |
| <b>VI-1</b>  | <b>Priority claim of earlier International application</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                              |
| VI-1-1       | Filing date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>02 December 2002 (02.12.2002)</b>         |
| VI-1-2       | Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>PCT/EP02/13601</b>                        |
| VI-1-3       | PCT receiving Office                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>EP</b>                                    |
| <b>VI-2</b>  | <b>Priority document request</b><br>The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):                                                                                                                                                                                                                                                                                                                                                                               | <b>VI-1</b>                                  |
| <b>VII-1</b> | <b>International Searching Authority Chosen</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>European Patent Office (EPO) (ISA/EP)</b> |
| <b>VIII</b>  | <b>Declarations</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Number of declarations</b>                |
| VIII-1       | Declaration as to the identity of the inventor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -                                            |
| VIII-2       | Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                            |
| VIII-3       | Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application                                                                                                                                                                                                                                                                                                                                                                                                                                                | -                                            |
| VIII-4       | Declaration of inventorship (only for the purposes of the designation of the United States of America)                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                                            |
| VIII-5       | Declaration as to non-prejudicial disclosures or exceptions to lack of novelty                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -                                            |
| <b>IX</b>    | <b>Check list</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>number of sheets</b>                      |
| IX-1         | Request (including declaration sheets)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>5</b>                                     |
| IX-2         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>34</b>                                    |
| IX-3         | Claims                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>9</b>                                     |
| IX-4         | Abstract                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>1</b>                                     |
| IX-5         | Drawings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>0</b>                                     |
| IX-7         | <b>TOTAL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>49</b>                                    |
|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>electronic file(s) attached</b>           |
|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>EZABST00.TXT</b>                          |

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|       | Accompanying items                                         | paper document(s) attached | electronic file(s) attached |
|-------|------------------------------------------------------------|----------------------------|-----------------------------|
| IX-8  | Fee calculation sheet                                      | ✓                          | -                           |
| IX-17 | PCT-EASY diskette                                          | -                          | Diskette                    |
| IX-19 | Figure of the drawings which should accompany the abstract |                            |                             |
| IX-20 | Language of filing of the international application        | English                    |                             |
| X-1   | Signature of applicant, agent or common representative     | <i>Hofmann, Dieter</i>     |                             |
| X-1-1 | Name (LAST, First)                                         | HOFFMANN, Dieter           |                             |

## FOR RECEIVING OFFICE USE ONLY

|        |                                                                                                                                         |                   |             |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|
| 10-1   | Date of actual receipt of the purported international application                                                                       | ( 1 0 . 11 . 03 ) | 10 NOV 2003 |
| 10-2   | Drawings:                                                                                                                               |                   |             |
| 10-2-1 | Received                                                                                                                                |                   |             |
| 10-2-2 | Not received                                                                                                                            |                   |             |
| 10-3   | Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application |                   |             |
| 10-4   | Date of timely receipt of the required corrections under PCT Article 11(2)                                                              |                   |             |
| 10-5   | International Searching Authority                                                                                                       | ISA/EP            |             |
| 10-6   | Transmittal of search copy delayed until search fee is paid                                                                             |                   |             |

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|      |                                                                |  |
|------|----------------------------------------------------------------|--|
| 11-1 | Date of receipt of the record copy by the International Bureau |  |
|------|----------------------------------------------------------------|--|